FIG. 1

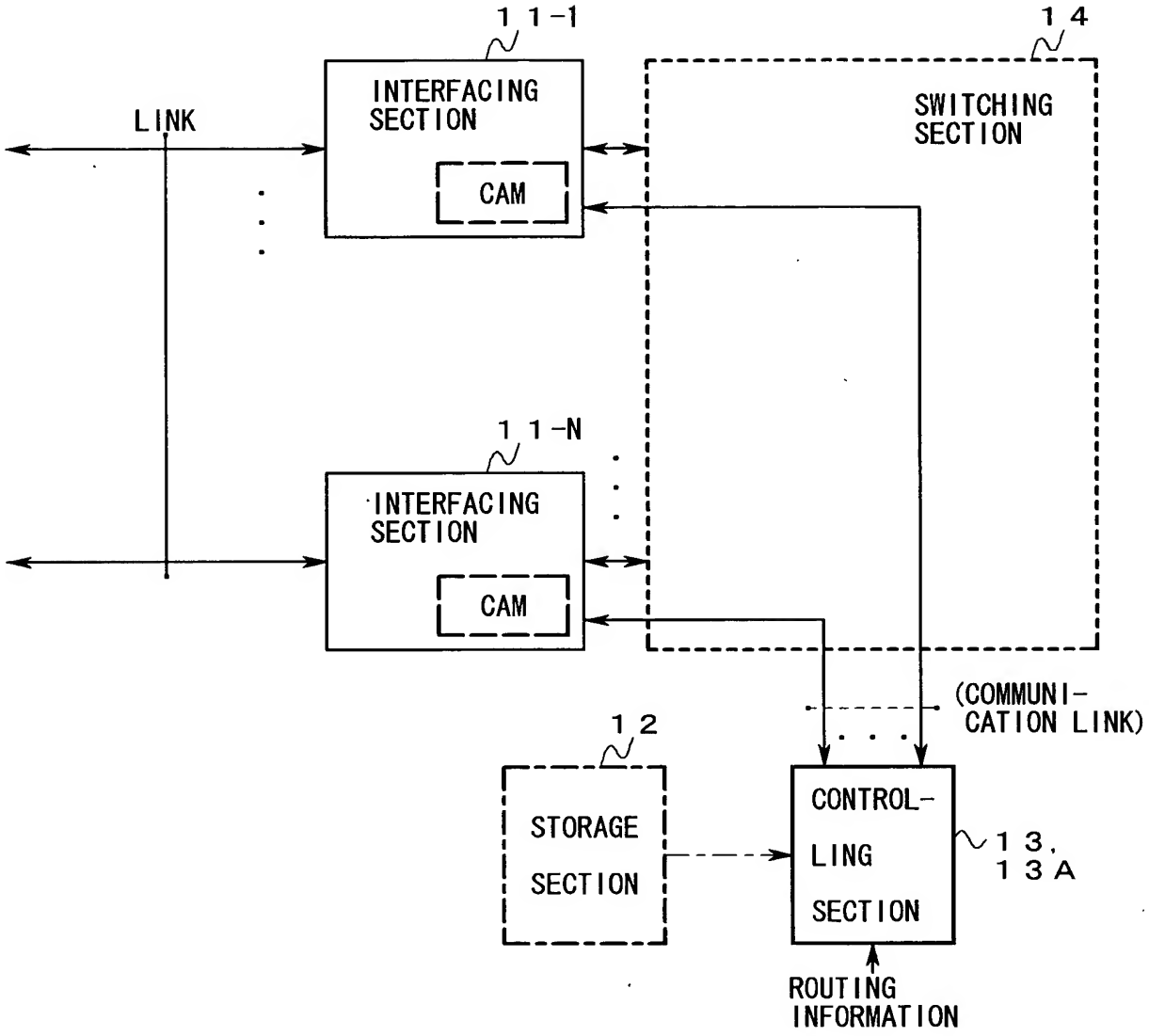

11-1
14
INTERFACING SECTION
CAM
LINK
SWITCHING SECTION
11-N
INTERFACING SECTION
CAM
(COMMUNI-CATION LINK)
12
STORAGE SECTION
CONTROL-LING SECTION
13, 13A
ROUTING INFORMATION

FIG. 2

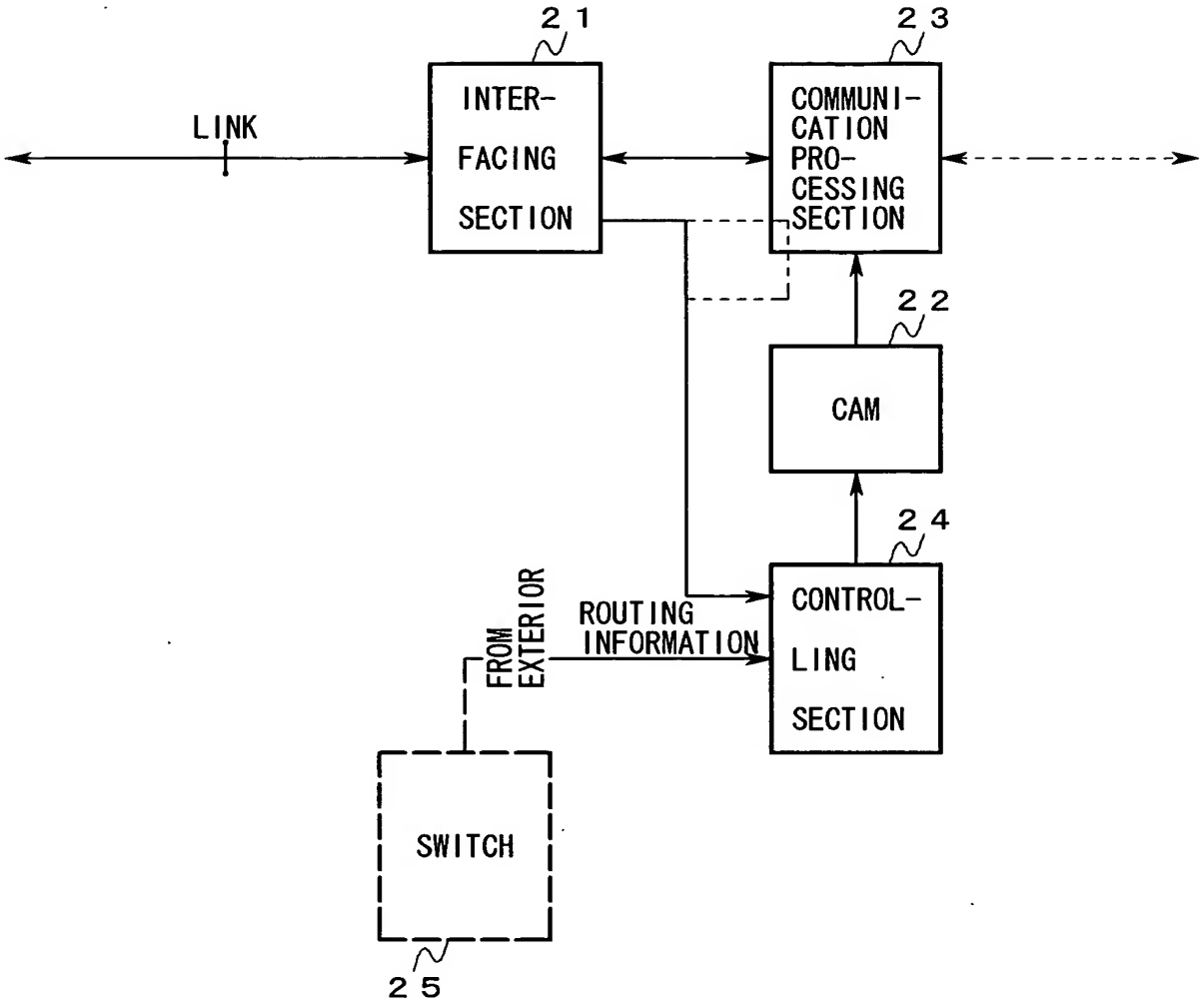

21
23
LINK
INTER-
FACING
SECTION
COMMUNI-
CATION
PRO-
CESSING
SECTION
22
CAM
24
FROM EXTERIOR
ROUTING
INFORMATION
CONTROL-
LING
SECTION
SWITCH
25

FIG. 3

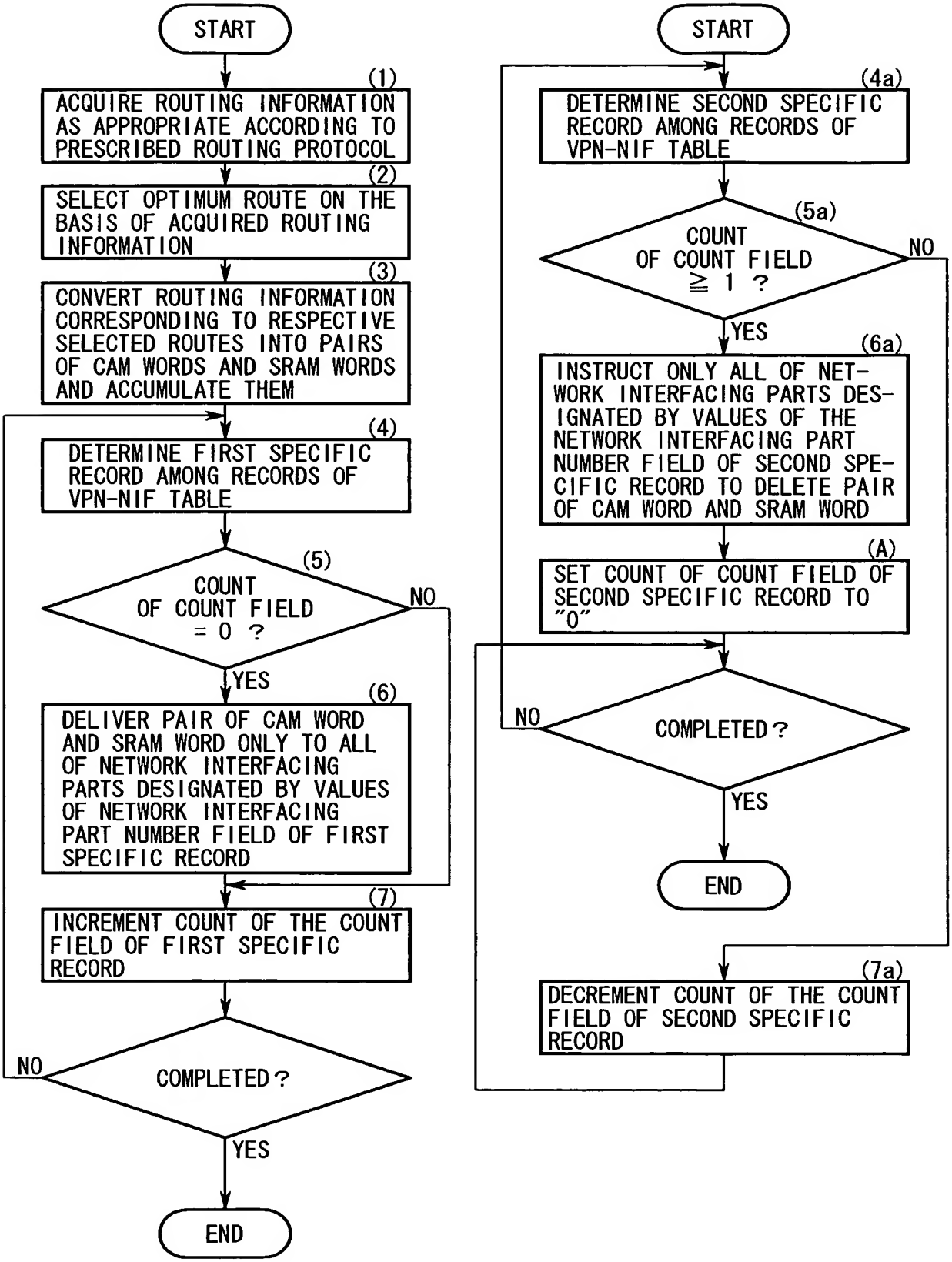
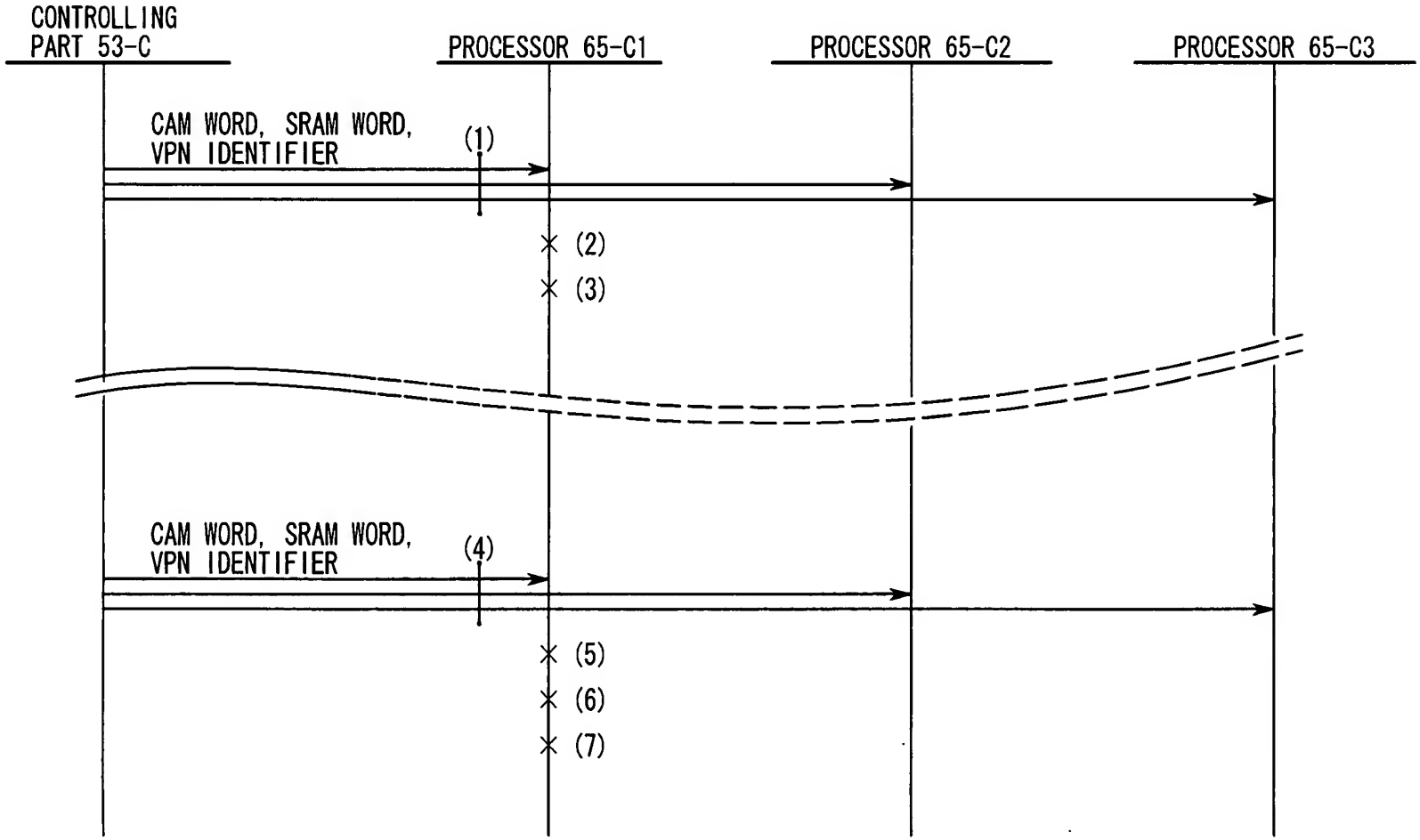

START
(1)
ACQUIRE ROUTING INFORMATION AS APPROPRIATE ACCORDING TO PRESCRIBED ROUTING PROTOCOL
(2)
SELECT OPTIMUM ROUTE ON THE BASIS OF ACQUIRED ROUTING INFORMATION
(3)
CONVERT ROUTING INFORMATION CORRESPONDING TO RESPECTIVE SELECTED ROUTES INTO PAIRS OF CAM WORDS AND SRAM WORDS AND ACCUMULATE THEM
(4)
DETERMINE FIRST SPECIFIC RECORD AMONG RECORDS OF VPN-NIF TABLE
(5)
COUNT OF COUNT FIELD = 0 ?
NO
YES
(6)
DELIVER PAIR OF CAM WORD AND SRAM WORD ONLY TO ALL OF NETWORK INTERFACING PARTS DESIGNATED BY VALUES OF NETWORK INTERFACING PART NUMBER FIELD OF FIRST SPECIFIC RECORD
(7)
INCREMENT COUNT OF THE COUNT FIELD OF FIRST SPECIFIC RECORD
NO
COMPLETED?
YES
END
START
(4a)
DETERMINE SECOND SPECIFIC RECORD AMONG RECORDS OF VPN-NIF TABLE
(5a)
COUNT OF COUNT FIELD ≧ 1 ?
NO
YES
(6a)
INSTRUCT ONLY ALL OF NETWORK INTERFACING PARTS DESIGNATED BY VALUES OF THE NETWORK INTERFACING PART NUMBER FIELD OF SECOND SPECIFIC RECORD TO DELETE PAIR OF CAM WORD AND SRAM WORD
(A)
SET COUNT OF COUNT FIELD OF SECOND SPECIFIC RECORD TO "0"
NO
COMPLETED?
YES
END
(7a)
DECREMENT COUNT OF THE COUNT FIELD OF SECOND SPECIFIC RECORD

FIG. 4

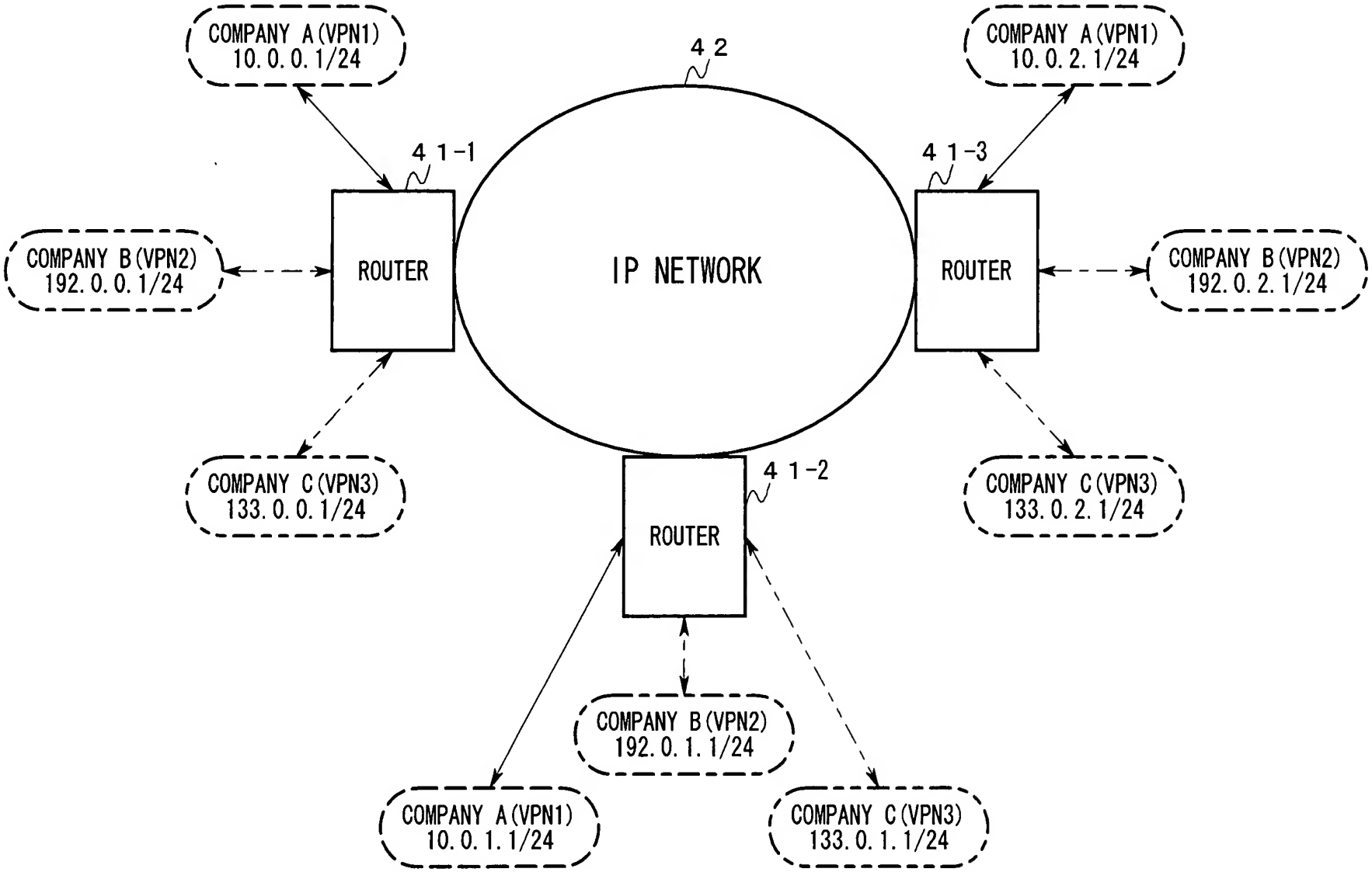
VPN IDENTIFIER	NETWORK INTERFACING PART NUMBER	COUNT
1	1, , ···	1, 2
2	2, , ···	1, 2
3	3, , ···	2, 1
⋮	⋮	⋮

53T-C
(65T-C)

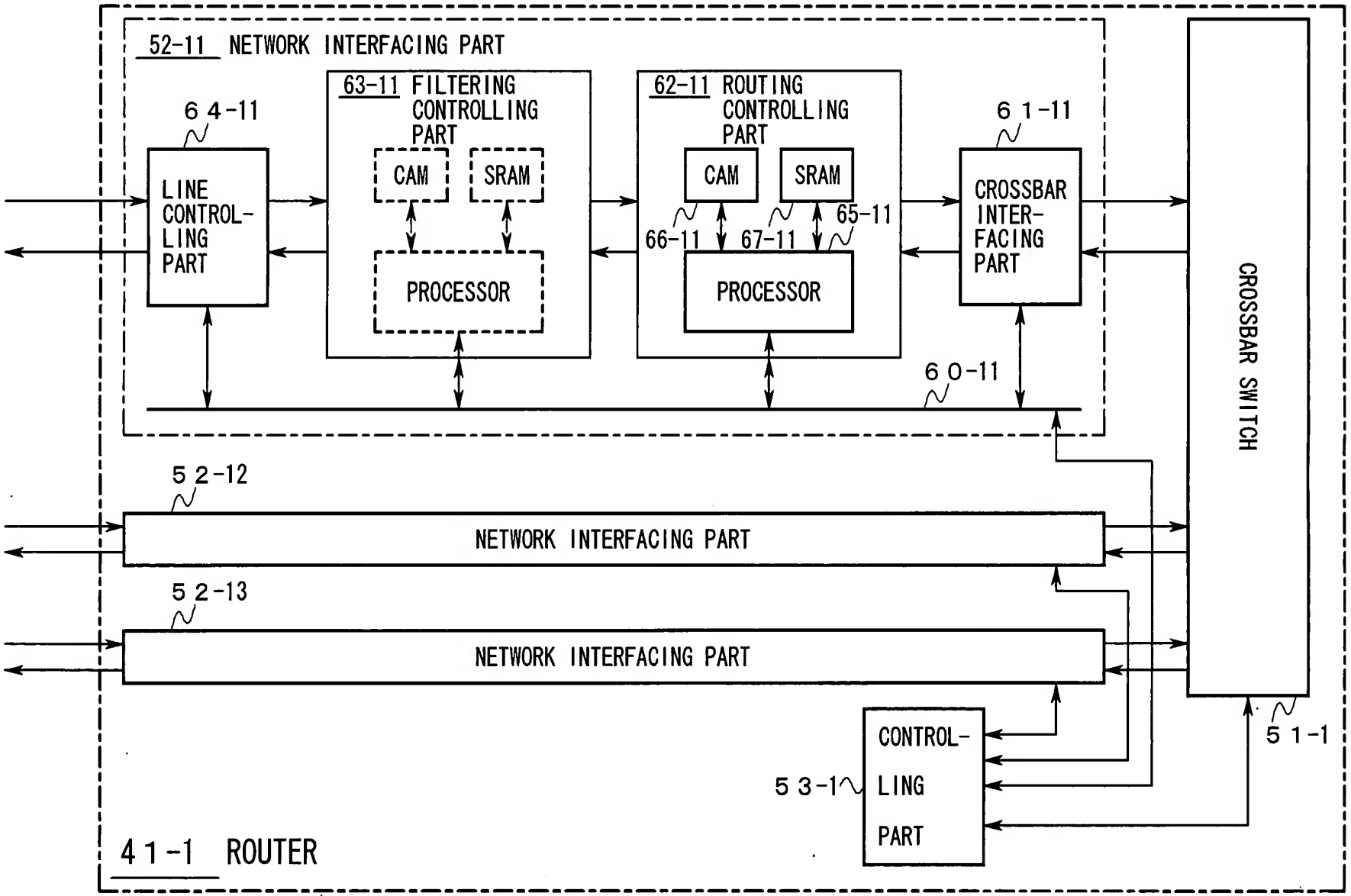
FIG. 5


CONTROLLING PART 53-C
PROCESSOR 65-C1
PROCESSOR 65-C2
PROCESSOR 65-C3
CAM WORD, SRAM WORD, VPN IDENTIFIER
(1)
(2)
(3)
CAM WORD, SRAM WORD, VPN IDENTIFIER
(4)
(5)
(6)
(7)

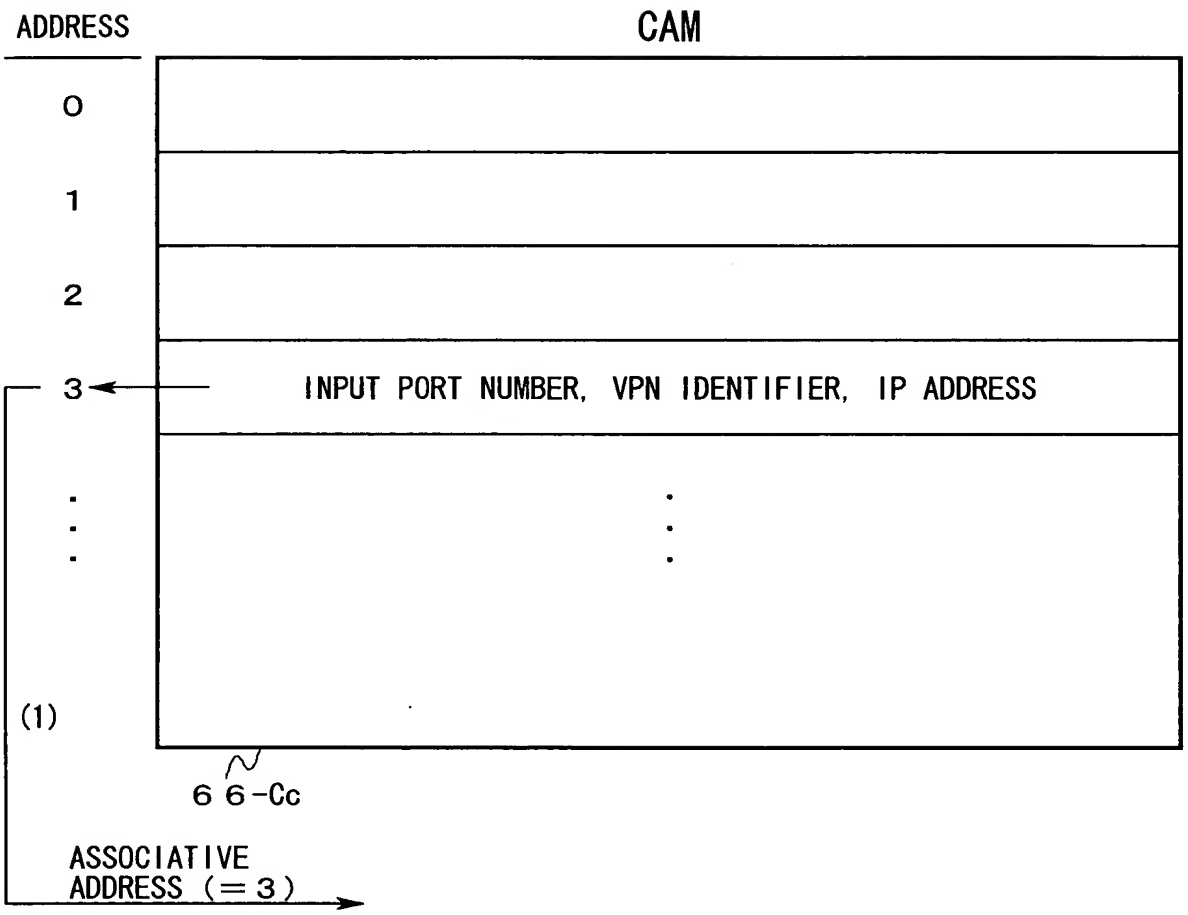
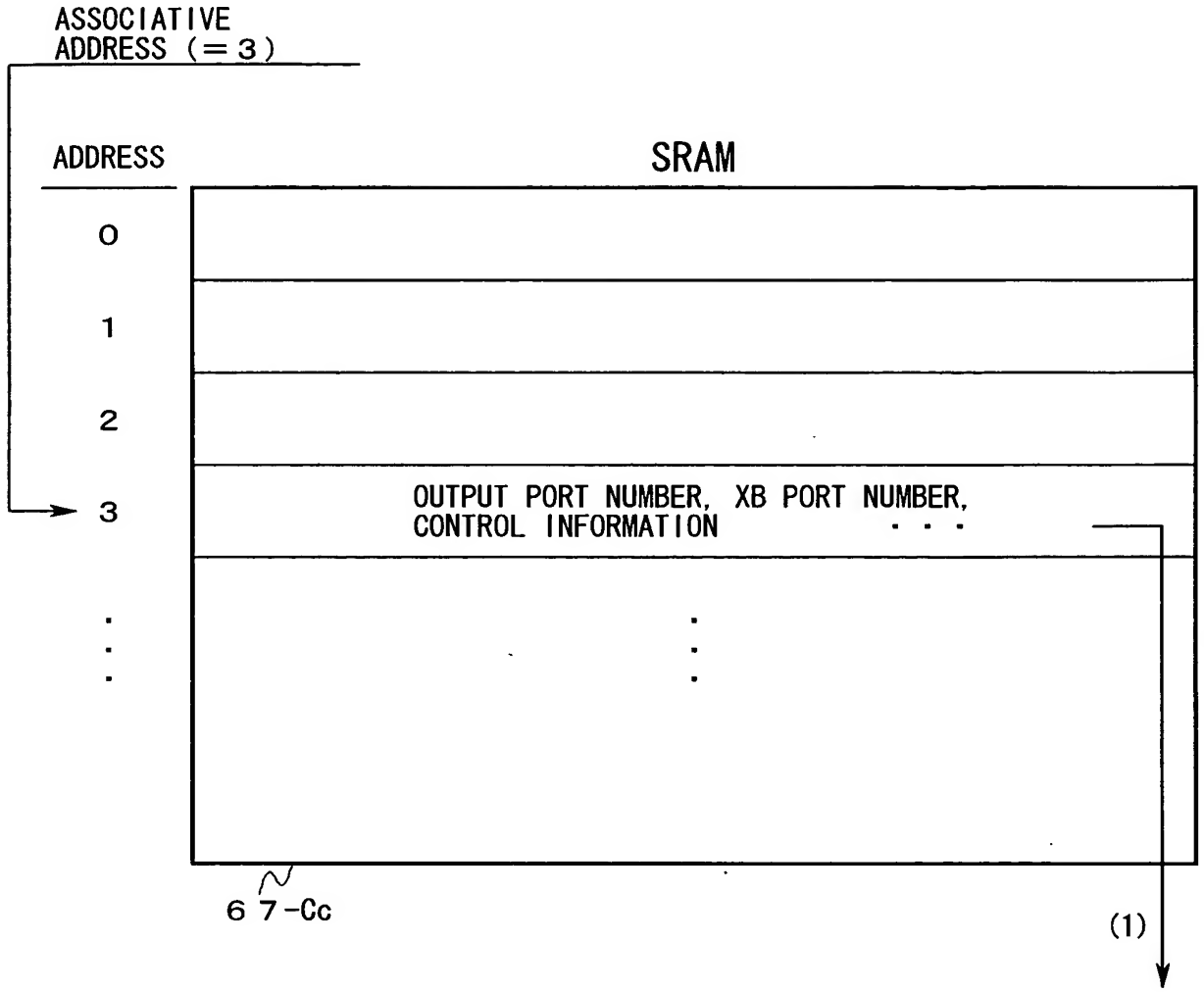
PRIOR ART FIG. 6



PRIOR ART FIG. 7



PRIOR ART FIG. 8



PRIOR ART FIG. 9